

In re Application of:

Wegeng et al.

Application No. 10/609,501

Filed: June 30, 2003

Art Unit: 1724

Examiner: F. Lawrence

For: METHOD AND APPARATUS

FOR THERMAL SWING ADSORPTION AND

THERMALLY-ENHANCED

PRESSURE SWING ADSORPTION

Atty Docket: 13025E-DIV

## INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Pursuant to the duty of disclosure under 37 CFR §§ 1.56 and 1.97-1.99, the documents listed on the attached Form(s) PTO-1449 are being brought to the attention of the Examiner in charge of the above-identified application. The fee set forth in 37 CFR § 1.17(p) is provided for in the accompanying Fee Transmittal Form.

The Examiner is respectfully requested to initial the space adjacent each document entry on the Form(s) PTO-1449, and to return a copy of the initialled Form(s) PTO-1449 to confirm that the documents have been considered and have been officially made of record in this application.

Applicants thank Examiner Lawrence for the remark on page 2 of the Office Action that references submitted in the parent application need not be attached to this Information Disclosure Statement.

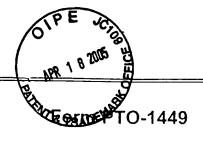
If the Examiner has any questions or wishes to discuss this application, the Examiner is invited to telephone the undersigned representative at the number set forth below.

Respectfully submitted,

Date: 15 April 2005

By: Trank S. Rosenberg

Registration No. 37,068 Tel. No. 925-376-8416



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	Attorney Docket 13025E - <b>DIV</b>	Application No.
	Applicant Wegeng et al.	
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# **Information Disclosure Citation**

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			U.S. Pate	nt Documents	d		
Examiner Initial		Patent Number	Date	Name	Class	Sub- Class	Filing Date
	AA	6,508,862	2003	Tonkovich et al.	95	106	4/30/01
	AB	5,811,062	. 1998	Wegeng et al.	422	129	
	AC	6,488,838	2002	Tonkovich et al.	208	108	4/17/1999
	AD	5,948,142	1999	Holmes et al.	95	99	
· •	AE	5,802,870	1998	Arnold et al.	62	480	
	AF						
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	,		Foreign Pa	tent Documents			
		Document Number	Date	Country	Class	Sub- Class	Trans- lation
	AH	DE 3509564A1	1986	Germany	\F24 /	\J3/00/	No
	ΑI	JP 2001085040	3/30/2001	Japan	H01M	8/06	Abstract
	AJ	JP 02170369 0	1988	Japan	HOIM	8/0/6	Abstract
	AK	JP 61107668 0	1984	Japan	H0 <b>M</b> M	8)04	Abstract
	AL	JP 2001035518	2/9/2001	Japan	HOIM	8/04	Abstract
	AM	JP 2000351604	12/19/2000	Japan	HOIM	8/06	Abstract
	AN						
	AO						
	AP						
	<u> </u>	Other Docu	ments (Including	Author, Title, Date, Pertinent	Pages etc.)		<u> </u>
	AQ			2003, PCT/US 02/13722	r ages, etc.		
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

DOCKET NO.: 13025-E → DIV SERIAL NO.:

LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)

APPLICANT: RS Wegeng et al.

FILING DATE:

GROUP:

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	A	4,055,962	11/01/1977	Terry	62	102	
	В	4,281,969	08/04/1981	Doub, Jr.	417	52	
	С	4,779,428	10/25/1988	Chan et al.	62	467	
	D	5,046,319	10/10/1991	Jones	62	<b>4</b> 6.2	<del></del>
····	E	5,419,156	05/30/1995	Sywulka	62	<b>4</b> 76	

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	Ī	X Feng et al., "Hollow-Fiber-Based Adsorbers for Gas Separation by Pressure-Swing Adsorption", pg. 1555-1562. 1998.
	J	JA Jones et al., "Design, Life Testing, and Future Designs of Cryogenic Hydride Refrigeration Systems", pg. 1-23. Wo Out @
	K	K Karperos, "Operating Characteristics of a Hydrogen Sorption Refrigerator Part 1: Experiment Design and Results", pg. 1-15.
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	0	WJ Thomas et al., "Adsorption Technology and Design", pg. 108-119, 220-227. 1998.
	P	VV Viswanathan et al., "Microscale Adsorption for Energy and Chemical Systems", pg. 1-3. 2001.

### **EXAMINER**

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

		Notice of Reference	APR 1	Application Application	Control No.	Applicant(s)/P. Reexamination WEGENG ET  Art Unit	า
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): ):	T	Document Number	Date	U.S. PATENT DOCUM	MENTS		
<u> </u>	-	Country Code-Number-Kind Code	MM-YYYY		Name		Classification
_	A	US-3,568,406	03-1971	Dynes			95/115
_	В	US-4,056,369	11-1977	Quackenbush, Henry	,		208/262.1
	С	US-4,444,727	04-1984	Yanagihara et al.			422/223
_	D	US-4,612,022	09-1986	Berry, W. Wes			95/113
_	E	US-4,793,143	12-1988	Rhodes, Barry V.			62/93
4	F	US-5,298,054	03-1994	Malik, Ram L.			95/104
4	G	US-5,650,221	07-1997	Belding et al.			162/157.2
_	Н	US-5,681,370	10-1997	McMahon, James P.			95/105
	1	US-6,066,192	05-2000	Toshinaga et al.			95/101
	J	US-6,251,164	06-2001	Notaro et al.			
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	L	US-					95/106
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# **Form PTO-1449**

# **Information Disclosure Citation**

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Attorney Docket 13025E-DIV	Application No. 10/609,501
Applicant Wegeng et al.	
Filing Date	Group Art Unit

			Jun 30, 2003	Jun 30, 2003		1724	
	<b>.</b>		U.S. Pat	ent Documents			
Examiner Initial		Patent Number	Date	Name	Class	Sub- Class	Filing Date
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	AB	6,814,781	2004	Tonkovich et al.	95	90	
	AC	6,630,012	2003	Wegeng et al.	95	106	
	AD	6,143,943	2000	Oroskar et al.	585	654	
	AE	6,126,723	2000	Drost et al.	95	4	
	AF	6,746,515	2004	Wegeng et al.	95	96	
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	AI						
	AJ						
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